COM S 311 Programming Assignment 2 Report

Width Cut:

Recurrence Relation:

For i<M.length and j<M[0].length

WC(i, j) = M[i][j] + min(WC(i-1, j+1), WC(i-1, j), WC(i-1, j-1))

Where M[][] is the inputted cost matrix

Runtime:

O(n) where n is the number of elements in the 2d array of weights, M

Stitch Cut:

Recurrence Relation:

For i<M.length and j<M[0].length

WC(i, j) = M[i][j] + min(WC(i, j-1), WC(i-1, j), WC(i-1, j-1))

Where M[][] is the inputted cost matrix

Runtime:

O(n) where n is the number of elements in the 2d array of weights, M